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Publication number:

**0 331 959 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 89102915.9

(51) Int. Cl.<sup>5</sup>: A61N 1/375

(22) Date of filing: 20.02.89

(30) Priority: 29.02.88 US 161700

(43) Date of publication of application:  
13.09.89 Bulletin 89/37

(84) Designated Contracting States:  
DE FR GB IT NL SE

(88) Date of deferred publication of the search report:  
09.01.91 Bulletin 91/02

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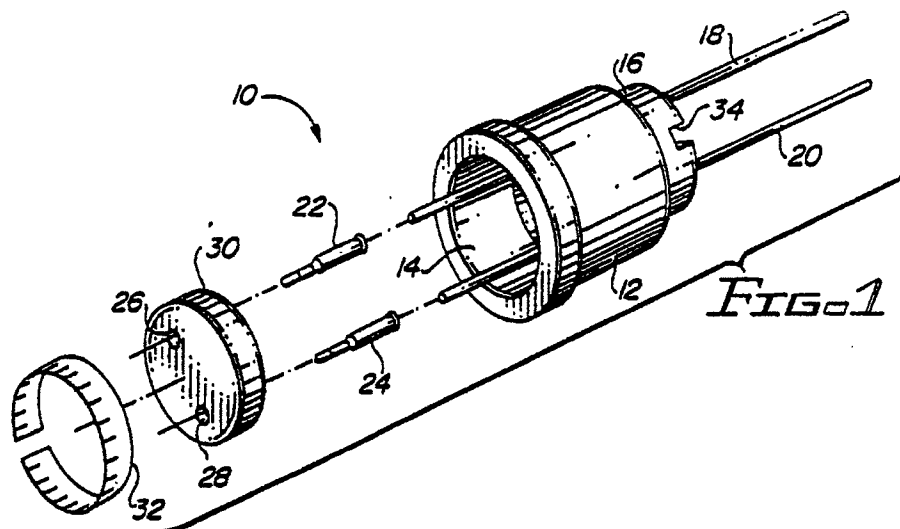
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(84) Bipolar filtered feedthrough terminal.

(57) A bipolar feedthrough terminal (10) provides an electrical connection between two different environments, such as between the electrical circuits within a hermetically sealed pacemaker case and the connector block assembly to which two pacemaker leads (18, 20) are ultimately attached. Included as an

integral part of the feedthrough terminal is a capacitor disk (30) made up of several laminations which provide two separate parallel plate capacitors from either lead to ground. Capacitive filtering thus protects the pacemaker circuits from electromagnetic interference.



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# EUROPEAN SEARCH REPORT

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EP 89102915.9

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<u>DE - A1 - 2 818 635</u> (AMERICAN PACEMAKER) * Claims 1,9; page 11, paragraph 2; fig. 2 *	1, 2, 8, 10	A 61 N 1/375
A	<u>DE - A1 - 2 809 886</u> (NEEDLE IND.) * Page 17, last 3 lines - page 18, last line; fig. 1,5 *	1, 10	
A	<u>US - A - 4 679 867</u> (HELDENBRAND) * Abstract; column 1, lines 5-41; column 4, lines 46-50 *	1, 10	
A	<u>US - A - 4 678 868</u> (KRASKA) * Abstract; column 1, lines 14-21; fig. *	1, 10	
A	<u>EP - A2 - 0 251 158</u> (WALTER ROSE) * Abstract; fig. 1 *	1, 10	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
A	<u>EP - A1 - 0 052 879</u> (MEDTRONIC) * Abstract; fig. 1-4 *	1, 10	A 61 N A 61 B
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 06-11-1990	Examiner NEGWER
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			